



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	40.20	50.80	63.80									
15.0	37.70	47.80	60.20	75.10								
20.0	35.10	44.80	56.60	70.80	87.60							
25.0	32.70	41.80	53.00	66.50	82.60	101.50	110.00					
30.0	30.20	38.90	49.50	62.30	77.50	95.40	103.50	116.00	128.00			
35.0	27.90	36.10	46.10	58.20	72.50	89.50	97.00	109.00	120.00	132.00		
40.0	25.60	33.30	42.70	54.00	67.60	83.60	90.70	102.50	112.50	124.00	148.50	177.00
45.0	23.30	30.50	39.30	50.00	62.70	77.70	84.40	95.30	105.00	115.50	139.00	166.00
50.0	21.20	27.90	36.10	45.90	57.80	71.90	78.20	88.40	97.70	107.50	130.00	155.00
55.0	19.10	25.30	32.80	42.00	53.00	66.10	72.00	81.60	90.20	99.60	120.50	144.50
60.0		22.80	29.70	38.10	48.30	60.40	65.90	74.70	82.80	91.60	111.00	133.50
65.0			26.60	34.30	43.60	54.70	59.80	68.00	75.50	83.60	102.00	123.00
70.0			23.70	30.60	39.00	49.20	53.80	61.30	68.20	75.70	92.70	112.50
75.0				26.90	34.50	43.60	47.80	54.70	61.00	67.90	83.50	101.50
80.0				23.40	30.10	38.20	42.00	48.20	53.90	60.10	74.40	91.10

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	10.25	10.80	11.00									
15.0	10.90	11.65	12.15	12.25								
20.0	11.45	12.40	13.20	13.65	13.65							
25.0	11.90	13.05	14.10	14.85	15.25	15.20	15.00					
30.0	12.30	13.65	14.90	15.95	16.70	17.05	17.05	16.90	16.60			
35.0	12.65	14.15	15.60	16.90	18.00	18.75	18.90	19.05	19.00	18.80		
40.0	13.00	14.60	16.20	17.80	19.15	20.30	20.60	21.00	21.20	21.30	20.90	19.90
45.0	13.40	15.05	16.80	18.60	20.20	21.70	22.20	22.80	23.20	23.50	23.70	23.30
50.0	13.75	15.50	17.40	19.35	21.20	23.00	23.60	24.50	25.10	25.70	26.40	26.50
55.0	14.20	16.00	17.95	20.10	22.20	24.20	25.00	26.10	26.90	27.70	28.80	29.50
60.0		16.50	18.55	20.80	23.10	25.40	26.30	27.60	28.60	29.50	31.10	32.30
65.0			19.20	21.50	24.00	26.60	27.60	29.00	30.20	31.30	33.40	35.00
70.0			19.90	22.30	24.90	27.70	28.80	30.40	31.70	33.00	35.50	37.60
75.0				23.20	25.90	28.80	30.00	31.80	33.30	34.70	37.50	40.10
80.0				24.10	26.90	30.00	31.20	33.20	34.80	36.40	39.50	42.50

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	28.57	29.11	29.32									
15.0	29.21	29.96	30.46	30.56								
20.0	29.76	30.72	31.49	31.94	31.94							
25.0	30.25	31.39	32.43	33.22	33.63	33.52	33.30					
30.0	30.69	32.00	33.29	34.40	35.21	35.58	35.57	35.37	35.01			
35.0	31.09	32.56	34.08	35.51	36.71	37.54	37.74	37.87	37.81	37.56		
40.0	31.46	33.08	34.83	36.56	38.13	39.42	39.82	40.27	40.50	40.57	40.16	38.91
45.0	31.82	33.58	35.54	37.56	39.49	41.22	41.82	42.59	43.10	43.47	43.73	43.23
50.0	32.19	34.08	36.23	38.52	40.81	42.96	43.75	44.83	45.63	46.30	47.21	47.44
55.0	32.58	34.57	36.91	39.47	42.09	44.66	45.64	47.02	48.09	49.05	50.60	51.55
60.0		35.09	37.61	40.41	43.36	46.33	47.48	49.17	50.50	51.75	53.93	55.58
65.0			38.32	41.36	44.62	47.98	49.31	51.28	52.88	54.40	57.20	59.54
70.0			39.07	42.33	45.90	49.63	51.13	53.39	55.23	57.03	60.44	63.46
75.0				43.34	47.20	51.29	52.96	55.49	57.58	59.65	63.64	67.33
80.0				44.41	48.54	52.98	54.82	57.60	59.94	62.27	66.84	71.18

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	223.00	276.00	340.00									
15.0	217.00	270.00	334.00	409.00								
20.0	211.00	264.00	327.00	401.00	488.00							
25.0	205.00	257.00	319.00	393.00	479.00	577.00	620.00					
30.0	198.50	250.00	312.00	385.00	469.00	567.00	609.00	677.00	738.00			
35.0	192.50	243.00	304.00	376.00	459.00	556.00	598.00	665.00	725.00	789.00		
40.0	186.00	237.00	296.00	367.00	449.00	544.00	586.00	652.00	712.00	775.00	913.00	1067.00
45.0	179.50	229.00	288.00	358.00	439.00	532.00	573.00	639.00	698.00	761.00	897.00	1050.00
50.0	173.50	222.00	280.00	348.00	428.00	520.00	560.00	625.00	683.00	745.00	880.00	1032.00
55.0	167.00	215.00	272.00	339.00	417.00	507.00	547.00	611.00	668.00	729.00	863.00	1013.00
60.0		208.00	264.00	329.00	405.00	494.00	533.00	596.00	652.00	713.00	845.00	994.00
65.0			255.00	319.00	393.00	480.00	518.00	580.00	636.00	696.00	827.00	975.00
70.0			247.00	309.00	381.00	466.00	504.00	565.00	620.00	678.00	808.00	955.00
75.0				299.00	369.00	452.00	489.00	549.00	603.00	661.00	789.00	936.00
80.0				290.00	358.00	439.00	475.00	534.00	587.00	644.00	772.00	918.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	229
Suction, inch	2 1/8
Discharge, inch	1 5/8
Oil Quantity, l	3.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Digital Modulation	33-100%
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	81.5
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-66%
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00